

ABSTRACT OF THE DISCLOSURE

5 A nucleic acid molecule can be annealed to an appropriate
immobilized primer. The primer can then be extended and the
molecule and the primer can be separated from one another. The
extended primer can then be annealed to another immobilized
10 primer and the other primer can be extended. Both extended
primers can then be separated from one another and can be used
to provided further extended primers. The process can be
repeated to provide amplified, immobilized nucleic acid
molecules. These can be used for many different purposes,
including sequencing, screening, diagnosis, *in situ* nucleic
acid synthesis, monitoring gene expression, nucleic acid
fingerprinting, etc.